

Vernam®

7-E

**EMULSIFIABLE LIQUID - SELECTIVE HERBICIDE FOR CONTROL OF WEEDS
IN PEANUTS AND SOYBEANS.**

Keep Out of Reach of Children

CAUTION

HARMFUL IF SWALLOWED

Statement of Practical Treatment

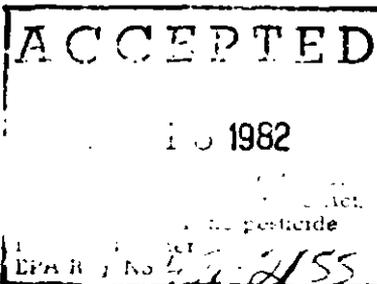
FIRST AID: If swallowed: DO NOT induce vomiting. Immediately give large quantities of water. If vomiting does occur, give fluids again. Never give anything by mouth to an unconscious person. Call a physician or the nearest Poison Control Center immediately.

For eye contact: Hold eyelids apart and flush with large amounts of running water for at least 15 minutes. Call a physician.

For skin contact: Flush with large amounts of running water for 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.

If inhaled: Remove to fresh air. Get medical attention if respiratory irritation occurs.

See back panel for additional Precautionary Statements.



Contains Seven Pounds of Active Ingredient Per Gallon

ACTIVE INGREDIENT

S-propyl dipropylthiocarbamate

88.5%

INERT INGREDIENTS

11.5%
100.0%

EPA Reg No 476-2155-AA

5 GAL. NET 18.9 L

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified. Country: United States of America.

MADE IN U.S.A. by

STAUFFER CHEMICAL COMPANY
WESTPORT, CT 06881-0850

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid contact with skin, eyes and clothing. Avoid inhalation of spray mist. Wear rubber gloves, goggles and protective clothing. Wash with soap and water immediately after use or contact. Do not contaminate food and feed. Keep away from heat and flame.

ENVIRONMENTAL HAZARDS—Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed or fertilizer by storage or disposal.

STORAGE: Keep container tightly closed when not in use. Can be stored at temperature as low as minus 50°F.

PESTICIDE DISPOSAL: Rinse spray equipment. Pesticide spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other approved State and local procedures.

IMPORTANT

SEE ATTACHED BOOKLET FOR
USE PRECAUTIONS,
DIRECTIONS FOR USE AND RECOMMENDATIONS

Read All Precautions And Directions Before Using

NOTICE—READ CAREFULLY

CONDITIONS OF SALE: Stauffer (and seller) offer(s) this product for sale subject to, and buyer and all users are deemed to have accepted, the following conditions of sale and warranty which may only be varied by written agreement of a duly authorized representative of Stauffer.

WARRANTY LIMITATION: Stauffer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the directions for use on the label subject to the inherent risks referred to below. Stauffer makes no other express warranties. THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY and there are no warranties which extend beyond the description on the label hereof.

INHERENT RISKS: The directions for use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks associated with use. Buyer assumes all risks associated with use or application of this product contrary to label instructions or resulting from extraordinary weather conditions.

LIMITATION OF LIABILITY: In no case shall Stauffer be liable for special, indirect or consequential damages resulting from the use or handling of this product and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which such damages are claimed.

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device ahead of planter which bring up untreated soil to the surface. For furrow planted soybeans, apply VERNAM 7-E at or immediately after planting in bands over the row and incorporate with row wheels only. When applying at or after planting, care must be taken not to disturb the crop seed or seedlings. Use 2½ pints on coarse textured (sandy-light) soils, 3 pints on medium to fine textured (sandy loam to clay loam—medium to heavy) soils.

NOTE: In areas where beds are made prior to planting soybeans, VERNAM 7-E may be applied in a band immediately ahead of the bedding discs, set to cover the VERNAM 7-E with 3 to 4 inches of soil. If bed levelers are used before planting soybeans, make the beds higher to compensate for leveling, so 2 to 3 inches of soil remain over the treatment after the planting operation is done.

SEQUENTIAL APPLICATIONS

IMPORTANT: Always consult exact label of each herbicide used for specific recommendations and limitations.

For control of weeds not listed on the VERNAM 7-E label, and for increased control of labeled broadleaf weeds, the following herbicides are tested as overlay treatments after preplant applications of VERNAM 7-E:

PEANUTS

DYANAP* 3 lbs./gal. liquid

Broadcast rates per acre:

Apply at cracking at the rate of 6 quarts per acre.

ENIDE* 50W + **DINITRO** (PREMERGE 3 lbs./gal.)

Broadcast rates per acre:

Apply at cracking or up to 7 days after at the

rate of 4 lbs. ENIDE 50W and 2 quarts PREMERGE per acre.

LASSO* 4-EC (4 lbs. a.i./gal.) + **DINITRO** (PREMERGE 3 lbs./gal.)

Broadcast rates per acre:

Apply at cracking at the rate of 2 to 3 quarts of LASSO 4-EC and 2 quarts of PREMERGE per acre.

SOYBEANS

AMIBEN* 2 lbs./gal. liquid

Broadcast rates per acre:

Coarse textured (light) soils—1 Gallon
Medium textured (medium) soils—1½ Gallons
Fine textured (heavy) soils—1½ Gallons

BASAGRAN* 4 lbs./gal. liquid

Broadcast rates per acre: Apply ¾ to 1 quart per acre. Rates depend upon weeds to be controlled. Consult and follow the recommended rates on the BASAGRAN label.

DYANAP* 3 lbs./gal. liquid

Broadcast rates per acre: Use 6 quarts a.i. a broadcast spray just after the soybeans are planted but before the soybean plants emerge from the soil.

LOROX* 50W

Broadcast rates per acre:

Use 1 to 2½ lbs. LOROX 50W per acre depending on soil type. Use on coarse to medium textured soils. Apply after planting before soybeans emerge. Plant soybeans at least 1¼" deep on flat seed bed only to avoid possible crop injury. Do not use on sand or loamy sand or soil with less than 1% organic matter since crop injury may result.

AMIBEN—REG. TM
UNION CARBIDE AGRICULTURAL PRODUCTS CO., INC.
BASAGRAN—TRADEMARK
BASF AKTIEGESELLSCHAFT
DYANAP—REG. TM
UNIROYAL CHEMICAL, INC.
ENIDE—REG. TM
TUCCO DIVISION OF THE UPJOHN COMPANY
LASSO—REG. TM
MONSANTO COMPANY
LOROX—REG. TM
E. I. DUPONT DE NEMOURS & CO. INC.
PREMERGE—REG. TM
DOW CHEMICAL COMPANY

TANK MIX DIRECTIONS FOR USE ON SOYBEANS

VERNAM 7-E may be combined with the compounds listed in this section for tank mix applications on soybeans. Recommended rates for each tank mix are listed in the sections below. The mixing, spray equipment, soil incorporation, and planting directions for the VERNAM 7-E tank mixes on soybeans are listed at the end of the soybean tank mix section.

VERNAM 7-E/TREFLAN* 4-EC TANK MIX DIRECTIONS

How to use VERNAM 7-E and TREFLAN* 4-EC as a spray tank mix for weed control on soybeans.

TREFLAN Registered trademark of Elanco Products Company.

A tank mix combination of VERNAM 7-E (7 pounds active ingredient per gallon) and TREFLAN 4-EC (4 pounds of active ingredient per gallon) can be used prior to planting for weed control in soybeans.

The combination will control a broader spectrum of weeds than either material used alone. This includes tough weeds such as nutgrass, velvetleaf, foxtails, johnsongrass, redroot pigweed and wild cane.

Dependable performance—because the herbicides are mixed into the soil, rainfall is not needed to move them into the weed germinating zone. They are already there to kill grass and broadleaf weeds when they sprout.

WEEDS CONTROLLED:

- | | |
|------------------------------|--------------------------------|
| Annual Grasses: | Annual Broadleaf Weeds: |
| Annual bluegrass | Carpenterweed |
| Barleygrass (watergrass) | Chickweed |
| Brachiaria | Common lambsquarters |
| Bromegrass | Florida pusley |
| Cheat | Goosefoot |
| Crabgrass | Knotweed |
| Field sandbur | Kochia |
| Foxtails | Palmer amaranth (carelessweed) |
| Goosegrass | Pigweed |
| Junglerice | Purslane |
| Johnsongrass seedling | Russian thistle |
| Sprangletop | Singing nettle |
| Stinkgrass | Velvetleaf |
| Texas panicum (coloredgrass) | (buttonweed) |
| Wild cane | |

Perennial Grasses:
Nutsedge—nutgrass
Rhizome johnsongrass*
*Suppression

APPLICATION DIRECTIONS

Read and follow all directions, use limitations, precautions and warnings that appear on the VERNAM 7-E and TREFLAN 4-EC labels. Do not contaminate water by cleaning of equipment or disposal of wastes.

Application Rates

Soil Texture	Broadcast Rates/Acre	
	VERNAM 7-E*	TREFLAN 4-EC*
Coarse (light-sandy soils)	2½ pints	1 pint
Medium (silt loam & sandy clay soils)	2½ to 3** pints	1 to 1½ pints
Fine (heavy—clay soils)	3 to 3½ pints	1 to 2 pints

For rhizome johnsongrass suppression use the high rates of TREFLAN 4-EC and VERNAM 7-E.

For nutgrass, wild cane and velvetleaf control use the high rate of 3 pints VERNAM 7-E on medium textured soils.

For Rhizome Johnsongrasses—Use mold board plow, chisel plow or similar implement to bring rhizomes to the top of the soil. Then follow with a disc set to cut 4-6 inches deep and operate in two different directions at 4-6 mph before application to cut the rhizomes into small (2-3 inch) pieces. This should also destroy any emerged johnsongrass.

Cultivation is suggested in addition to VERNAM

7-E TREFLAN 4-EC treatment in fields with moderate to heavy infestations of nutgrass, wild cane, velvetleaf, and johnsongrass rhizomes.

VERNAM 7-E/AMIBEN* TANK MIX DIRECTIONS

How to use VERNAM 7-E and AMIBEN as a spray tank mix for weed control on soybeans.

A tank mix combination of VERNAM 7-E (7 pounds active ingredient per gallon) and AMIBEN (2 pounds active ingredient per gallon) can be used prior to planting, for weed control in soybeans.

The combination will control a broader spectrum of weeds than either material used alone.

WEEDS CONTROLLED:

- | | |
|-------------------------------|----------------------------|
| Annual Grasses: | Annual Broadleaves: |
| Barleygrass (watergrass) | Carpenterweed |
| Crabgrass | Chickweed |
| Foxtail, Giant, green, yellow | Coffinweed |
| German millet | Florida pusley |
| Goosegrass | Horcha |
| Johnsongrass seedling | Lambsquarters common |
| Stinkgrass | Morning glory annual |
| | Mustard, wild* |
| | Nightshade, black |
| | Pigweed |
| | redroot, smooth |
| | Pucky sida (teaweed) |

*AMIBEN Registered trademark of Union Carbide Agricultural Products Co., Inc.

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Perennial Grasses:

- Purple nutsedge (nutgrass)
- Yellow nutsedge (nutgrass)
- Purslane
- Ragweed, common
- Sicklepod
- Smartweed, Pennsylvania
- Spurge, annual
- Velvetleaf (buttonweed)

APPLICATION DIRECTIONS

Read and follow all directions, use limitations, precautions and warnings that appear on the VERNAM 7-E and AMIBEN labels. Do not contaminate water by cleaning of equipment or disposal of wastes.

Application Rates

Soil Texture	Broadcast Rates/Acre	
	VERNAM 7-E	AMIBEN
Medium (silt loam & sandy clay soils)	2 1/2 pints	3 quarts

For mixing, spray equipment, soil incorporation, and planting directions, refer to the directions at the end of the VERNAM 7-E tank mix on soybeans section of this label.

VERNAM 7-E/BASALIN* 4-E TANK MIX DIRECTIONS

How to use VERNAM 7-E and BASALIN 4-E as a spray tank mix on soybeans. A tank mix combination of VERNAM 7-E (7 pounds active ingredient per gallon) and BASALIN Registered trademark of BASF Wyandotte Corp.

BASALIN (4 pounds active ingredient per gallon) can be used prior to planting for weed control in soybeans.

The combination will provide better weed control than either herbicide used alone.

WEEDS CONTROLLED:

Annual Grasses:	Annual Broadleaves:
Barnyardgrass	Carpetweed
Crabgrass (watergrass)	Florida pusley
Foxtail, Giant, green, yellow	Lambsquarters, common
German millet	Morningglory, annual
Goosegrass	Pigweed, redroot
Johnsongrass, seeding	Smooth Purslane
Perennial Grasses:	Sicklepod
Purple nutsedge (nutgrass)	Velvetleaf—buttonweed
Yellow nutsedge (nutgrass)	

APPLICATION DIRECTIONS

Read and follow all directions, use limitations, precautions and warnings that appear on the VERNAM 7-E and BASALIN 4-E labels. Do not contaminate water by cleaning of equipment or disposal of wastes.

Application Rates

Soil Texture	Broadcast Rates/Acre	
	VERNAM 7-E	BASALIN 4-E
Coarse (light-sandy soils)	1 1/2 pints	1 pint
Medium (silt loam and sandy clay soils)	2 1/2 pints	1 pint

For mixing, spray equipment, soil incorporation, and planting directions, refer to the directions at the end of the VERNAM 7-E tank mix on soybeans section of this label.

VERNAM 7-E/LASSO* 4-EC TANK MIX DIRECTIONS

How to use VERNAM 7-E and LASSO 4-EC as a spray tank mix for weed control on soybeans.

A tank mix combination of VERNAM 7-E (7 pounds active ingredient per gallon) and LASSO 4-EC (4 pounds active ingredient per gallon) can be used prior to planting for weed control in soybeans grown in North Central States of Michigan, Indiana, and Illinois. Do not use on sand or loamy sandy soils as injury may occur.

The combination will provide better weed control than either herbicide used alone.

WEEDS CONTROLLED:

Annual Grasses:	Annual Broadleaves:
Barnyardgrass—(watergrass)	Carpetweed
Crabgrass	Florida pusley
	Lambsquarters,

*LASSO Registered trademark of Monsanto Company

Fall panicum	common
Foxtail (Giant, green, yellow)	Morningglory, annual
Goosegrass	Pennsylvania smartweed
Johnsongrass, seeding	Pigweed, redroot, smooth
	Purslane
	Sicklepod
	Velvetleaf—buttonweed

Perennial Grasses:

- Purple nutsedge—(nutgrass)
- Yellow nutsedge—(nutgrass)

APPLICATION DIRECTIONS

Read and follow all directions, use limitations, precautions and warnings that appear on the VERNAM 7-E and LASSO 4-EC labels. Do not contaminate water by cleaning of equipment or disposal of wastes.

Application Rates

Soil Texture	Broadcast Rates/Acre	
	VERNAM 7-E	LASSO 4-EC
Coarse (light-sandy soils)	1 1/2 pints	2 pints
Medium (silt loam and sandy clay soils)	2 1/2 pints**	3 pints
Fine (heavy-clay soils)	3 pints	4 pints

** For nutsedge and velvetleaf control use the rate of 3 pints of VERNAM 7-E on medium and fine textured (medium and heavy-clay) soils.

For mixing, spray and planting directions, refer to the end of the VERNAM 7-E section of this label.

soil incorporation, to the directions at the end of the VERNAM 7-E tank mix on soybean

VERNAM 7-E/PROWL* 4-E TANK MIX DIRECTIONS

How to use VERNAM 7-E and PROWL 4-E as a spray tank mix for weed control on soybeans.

A tank mix combination of VERNAM 7-E (7 pounds active ingredient per gallon) and PROWL 4-E (4 pounds active ingredient per gallon) can be used prior to planting for weed control in soybeans.

The combination will provide better weed control than either herbicide used alone.

WEEDS CONTROLLED:

Annual Grasses:	Annual Broadleaves:
Barnyardgrass (watergrass)	Carpetweed
Crabgrass	Florida pusley
Foxtail, Giant, green, yellow	Lambsquarters, common
Goosegrass	Morningglory, annual
Johnsongrass, seeding	Pigweed, redroot, smooth
Perennial Grasses:	Purslane
Purple nutsedge (nutgrass)	Sicklepod
Yellow nutsedge (nutgrass)	Velvetleaf—buttonweed

*PROWL Registered trademark of American Cyanamid Company

APPLICATION DIRECTIONS

Read and follow all directions, use limitations, precautions and warnings that appear on the VERNAM 7-E and PROWL 4-E labels. Do not contaminate water by cleaning of equipment or disposal of wastes.

Application Rates

Soil Texture	Broadcast Rates/Acre	
	VERNAM 7-E	PROWL 4-E
Coarse (light-sandy soils)	1 1/2 pints	1 pint
Medium (silt loam and sandy clay soils)	2 1/2 pints**	1 pint
Fine (heavy-clay soils)	3 pints	1 1/2 pints

** For nutsedge and velvetleaf control use the rate of 3 pints of VERNAM 7-E on medium textured (medium and heavy-clay) soils.

For mixing, spray equipment, soil incorporation, and planting directions, refer to the directions at the end of the VERNAM 7-E tank mix on soybean section of this label.

VERNAM 7-E/TOLBAN* 4-E TANK MIX DIRECTIONS

How to use VERNAM 7-E and TOLBAN 4-E as a spray tank mix for weed control on soybeans.

A tank mix combination of VERNAM 7-E (7 pounds active ingredient per gallon) and TOLBAN 4-E (4 pounds active ingredient per gallon) can be used prior to planting for weed control in soybeans.

*TOLBAN Registered trademark of Ciba-Geigy Corp.

The combination will provide better weed control than either herbicide use alone

WEEDS CONTROLLED:

Annual Grasses:	Annual Broadleaves:
Barnyardgrass (watergrass)	Carpetweed
Crabgrass	Florida pusley
Foxtail, Giant, green, yellow	Lambsquarters, common
German millet	Morningglory, annual
Goosegrass	Pigweed, redroot, smooth
Johnsongrass, seedling	Purslane
Perennial Grasses:	Sick 'n' nod
Purple nutsedge (nutgrass)	Velvetleaf (buttonweed)
Yellow nutsedge (nutgrass)	

APPLICATION DIRECTIONS

Read and follow all directions, use limitations, precautions and warnings that appear on the VERNAM 7-E and TOLBAN 4-E labels. Do not contaminate water by cleaning of equipment or disposal of wastes.

Application Rates

Soil Texture	Broadcast Rates / Acre	
	VERNAM 7-E	TOLBAN 4-E
Coarse (light-sandy soils)	1 1/4 pints	3/4 pints
Medium (silt loam and sandy/clay soils)	2 1/2 pints	1 pint
Fine (heavy-clay soils)	3 pints	1 1/2 pints

For nutgrass and velvetleaf control, use the rate of 3 pints of VERNAM 7-E on medium-textured soils.

For mixing, spray equipment, soil incorporation and planting directions, refer to the directions at the end of the VERNAM 7-E tank mix on soybean section of this label.

USE THE FOLLOWING DIRECTIONS FOR THE VERNAM 7-E TANK MIXES ON SOYBEANS.

Mixing:

Add the recommended rates of both VERNAM 7-E and TREFLAN 4-EC to the spray tank during filling and mix thoroughly. Begin adding the herbicides when spray tank is half full. Apply in 10-50 gallons of water per acre.

Spray Equipment:

Use a properly calibrated, low pressure, boom-type sprayer having good agitation. Check frequently during application to be sure nozzles are free from clogging and delivering a uniform spray pattern.

DRY FERTILIZER STATEMENT:

VERNAM 7-E/TREFLAN 4-EC tank mix may be impregnated on many dry bulk fertilizers for use on soybeans. However, uniform distribution of VERNAM 7-E/TREFLAN 4-EC on fertilizer particles and uniform application are necessary to assure good results. See Appendix II giving directions for impregnation and use.

Soil Incorporation:

The tank mix combination with VERNAM 7-E must be mixed (incorporated) into the soil immediately

after application. Whenever possible, application and incorporation should be done in the same operation. This can be done by mounting the tanks and boom right on the incorporation rig.

For thorough incorporation, use the following equipment:

Tandem Disc—Set to cut to a depth of 4 inches, followed by a spiked-tooth harrow or some other leveling device which extends beyond the ends of the disc. For thorough mixing, disc in two different directions (cross disc).

OR Power-driven cultivation equipment set to cut to a depth of 2-3 inches.

Planting:

Do not plant seed deeper than 2 inches. Seeding can be done immediately, or it may be delayed up to 10 days if it is necessary to work the soil following application and incorporation, but before planting, do not work the soil deeper than the depth the herbicide was incorporated, i.e., no more than 1/2 the depth the herbicides were incorporated. To avoid removing the herbicide from the row (with loss of weed control in the row) do not move or shape soil after treatment, such as by planting in deep furrows.

TANK MIX DIRECTIONS FOR USE ON PEANUTS

VERNAM 7-E may be combined with the compounds listed in this section for tank mix application on peanuts. Recommended rates for each tank mix are listed below. Mixing, spray equipment, soil incorporation and planting directions for VERNAM 7-E tank mixes on peanuts are listed at the end of the peanut tank mix section.

VERNAM 7-E/BALAN* 1.5 EC FOR PEANUTS

Selective Herbicides—Tank Mix Directions

How to use VERNAM 7-E and BALAN 1.5 EC as a spray tank mix for weed control on peanuts.

A tank mix combination of VERNAM 7-E and BALAN 1.5 EC can be used prior to planting for weed control in peanuts.

NOTE: Follow all use precautions and warnings that appear on the BALAN 1.5 EC label and on the VERNAM 7-E label. Do not contaminate water by cleaning of equipment or disposal of wastes.

WEEDS CONTROLLED

Annual Grasses:	Goosegrass
Annual bluegrass	Junglerice
Barnyardgrass	Ryegrass
(watergrass)	Johnsongrass, seedling
Crabgrass	Texas panicum
Crowfootgrass	(coloradograss)
Field sandbur	
Foxtails	

Perennial Grasses:

Nutsedge
(nutgrass)

Annual Broadleaf

Weeds:	Knotweed
Carpetweed	Palmer amaranth (carelessweed)
Chickweed	Pigweed
Lambsquarters, common	Purslane
Florida purslane (pusley)	Redmaids

BALAN Registered trademark of Elanco Products Company.

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APPLICATION DIRECTIONS

The following directions give broadcast rates of VERNAM 7-E and BALAN 1.5 EC as a spray tank mix for application prior to planting. Do not apply this combination after planting. BALAN 1.5 EC is not recommended for use on muck or other soil high in organic matter content.

Broadcast Rates Per Acre (Conventional spray and center pivot sprinklers)

Apply 2 1/2 pints VERNAM 7-E plus 3 quarts BALAN 1.5-EC on coarse and medium textured (sandy and loam-light and medium) soils.

Apply 3 pints VERNAM 7-E plus 4 quarts BALAN 1.5 EC on fine textured (silt and clay-heavy) soils.

CENTER PIVOT SPRINKLER APPLICATION:

(Limit use to the Southeastern U.S. only)

Apply VERNAM 7-E/BALAN 1.5-EC with irrigation water before planting or immediately after planting before either peanuts or weeds emerge. It is important that application be done immediately after the last tillage operation since poor results will occur if the weeds have germinated before application of the herbicides. Meter the premixed VERNAM 7-E/BALAN 1.5-EC into the irrigation water during the entire period. Apply 1/2 inch of water.

USE PRECAUTIONS:

A Apply the product only through center pivot irrigation systems containing anti-siphon and check valves which will prevent water source contamination and overflow of the slurry tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off.

B Inject the product with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

C Application of more than recommended quantities of irrigation water may result in decreased product performance by removing the chemical from the zone of effectiveness.

D Do not apply when wind speed favors drift when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

VERNAM 7-E/TREFLAN 4-EC FOR PEANUTS

Selective Herbicide—Tank Mix Directions

FOR TEXAS AND OKLAHOMA ONLY

How to use VERNAM 7-E and TREFLAN 4-EC as a spray tank mix for weed control on peanuts.

A tank mix combination of VERNAM 7-E and TREFLAN 4-EC can be used prior to planting for weed control in peanuts. The combination will control a broader spectrum of weeds than either material used alone. It is especially useful where nutgrass and Texas Panicum are a problem.

WEEDS CONTROLLED

Annual Grasses:	Crabgrass
Annual bluegrass	Foxtails (including Giant Foxtail)
Barnyardgrass (watergrass)	Goosegrass
Brachiaria	Junglerice
Bromegrass	Johnsongrass, seedling
Cheat	

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Sandbur
Sprangletop
Stinkgrass

Texas panicum
(Coloradograss)

Perennial Grasses:
Nutsedge
(Nutgrass)

Annual Broadleaves:

Carpetweed
Carelessweed
Chickweed
Florida purslane
(pursley)
Goosefoot
Knotweed
Kochia

Lambsquarters
Pigweeds
(spiny, redroot)
Puncturevine
Purslane
Pussian thistle
Stinging nettle

APPLICATION DIRECTIONS

The following directions give broadcast rates for VERNAM 7-E and TREFLAN 4-EC as a spray tank mix for application prior to planting. Read and follow all directions, use limitations, precautions and warnings that appear on the TREFLAN 4-EC and VERNAM 7-E labels.

Broadcast rates per Acre:

Mix and incorporate before planting 2 1/2 pints VERNAM 7-E and 1 pint TREFLAN 4-EC per acre. For band applications, reduce dosage proportionately, depending on row spacing and band width to be treated.

Use the following directions for the VERNAM 7-E tank mixes on peanuts.

Mixing:

Add the recommended rates of the herbicides to the spray tank during filling and mix thoroughly. Begin adding the herbicides when spray tank is half full. Apply in 10 to 50 gallons of water per acre.

Spray Equipment:

Use a properly calibrated, low pressure boom-type sprayer having good agitation. Check frequently during application to be sure nozzles are free from clogging and are delivering a uniform spray pattern.

Soil Incorporation:

The tank mix combinations must be mixed (incorporated) into the soil immediately after application. Whenever possible, application and incorporation should be done in the same operation. This can be done by mounting the tanks and boom right on the incorporation rig.

For thorough incorporation, use the following equipment: TANDEM DISC Set to cut 3 to 6 inches operated at 4-6 mph, followed by a spike-toothed harrow or some other leveling device, which extends beyond the ends of the disc. For thorough mixing, disc in two different directions (cross-disc).

OR: POWER DRIVEN cultivation equipment (tillers, cultivators, hoes) set to cut 2 to 3 inches deep.

Shallow incorporation of less than 2 inches may result in erratic weed control.

Planting:

Peanuts should be planted within 48 hours after the combination has been applied to obtain the maximum period of weed control during the growing season.

APPENDIX I

PROCEDURE FOR TESTING THE COMPATIBILITY OF VERNAM 7-E AND COMBINATIONS WITH FLUID FERTILIZERS

The following procedure is suggested for determining whether VERNAM 7-E may be combined with a specific fluid fertilizer for spray tank application.

MATERIALS REQUIRED:

- 1 VERNAM 7-E and/or combination
- 2 Fluid fertilizer to be used
- 3 Adjuvant for fertilizer tank mix: Compex™, Sponto 168-D™, Uni-mix™, Unite™ or equivalent. The adjuvant which provides the best compatibility depends on the specific fertilizer under consideration.
Compex™: Kalo Laboratories Inc. Kansas City, Missouri.
Sponto 168-D™: Witco Chemical Company Houston, Texas.
Uni-mix™: Thompson-Hayward Chemical Co. Kansas City, Kansas.
Unite™: Hopkins Agricultural Chemical Company, Madison, Wisconsin.
- 4 Two one-quart, wide-mouth glass jars with lid
- 5 Measuring spoons, 15 mL pipette or graduated cylinder provides more accurate measurement. 1 tablespoon equals 3 teaspoons, 1 teaspoon equals approximately 5 milliliters.
- 6 Measuring cup, 8 oz. (237 mL)

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PROCEDURE:

- 1 Pour a pint (about 473 mL) of the fluid fertilizer into each of the quart jars.
- 2 Add adjuvant to one of the jars and mix (see rate table).
- 3 Add the VERNAM 7-E or the desired combinations of herbicide to both jars (see rate table for VERNAM 7-E).

Close both jars with lid and mix the contents by turning the jars upside down ten times.

- (A) Inspect the surface and body of the mixtures—
 - (A) Immediately after completing the jar inversions.
 - (B) After allowing the jars to stand quietly for 30 minutes.
 - (C) And then again after turning the jars upside down 10 times.

If a uniform mix cannot be made, the mixture should not be used. If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes, but readily remix uniformly with the jar inversions, the mixture can be used if adequate agitation is maintained in the tank. If the mixture with adjuvant is satisfactory, but the one without adjuvant is not, be sure to use the adjuvant in the spray tank. Add the adjuvant first at a rate of 3 pints per 100 gallons of fluid fertilizer; foaming can be minimized by using moderate agitation.

If nondispersible oil, sludge or clumps of solids form in the mixtures, the combinations should not be used.

RATE TABLE FOR VERNAM 7-E AND ADJUVANT** WITH THE FLUID FERTILIZER

Gallons of Fluid Fertilizer To Be Applied Per Acre	mL or Tsp of VERNAM 7-E* To Be Added To 1 Pint of Fertilizer	
	VERNAM 7-E mL	Tsp
10	7	1 1/2
15	5	1
20	4	3/4
25	3	3/8
30	2	3/8
40	2	1/2

*Based on field rate of 1 pound active ingredient per acre in the fertilizer volumes indicated. Increase volume proportionately to correspond with intended field rate in terms of pounds active ingredient per acre (e.g. for field rate of 4 pounds actual VERNAM 7-E in 40 gallons fertilizer per acre, add 8 ml or 2 tsp VERNAM 7-E to each jar for compatibility testing purposes).

**Two (2) milliliters or one-half (1/2) teaspoon of adjuvant should be added to 1 pint of fluid fertilizer in order to equal the rate of 3 pints of adjuvant per 100 gallons of fluid fertilizer.

APPENDIX II

VERNAM 7-E and VERNAM/TREFLAN 4-EC IMPREGNATION ON DRY BULK FERTILIZERS

CAUTION: VERNAM 7-E alone or in combination with other herbicides must not be impregnated on ammonium nitrate, sodium nitrate or potassium nitrate. Such mixtures may cause explosion and fire.

VERNAM 7-E alone may be impregnated on many* dry bulk fertilizers for use on registered crops. VERNAM 7-E in combination with TREFLAN may be impregnated on many* dry bulk fertilizers and applied and incorporated in the soil before planting for the control of labeled grasses and broadleaf weeds in soybeans.

Field results have shown that VERNAM 7-E and VERNAM/TREFLAN 4-EC on bulk dry fertilizers give weed control equal to VERNAM 7-E or VERNAM 7-E/TREFLAN 4-EC applied as a spray in water or liquid fertilizer. However, uniform impregnation of herbicide solution on the dry fertilizer particles and uniform application in the field are necessary to assure good results.

For impregnating pesticides on dry fertilizers, use a closed rotary drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle (or nozzles) should be positioned inside of the mixer to provide uniform spray coverage of the tumbling fertilizer. For the VERNAM 7-E/TREFLAN 4-EC combination, premix in the proper use ratio to prepare a uniform solution for joint spray impregnation. The physical properties of fertilizers, particularly in liquid absorptive capacity when absorptivity is sufficient, single spray impregnation of the fertilizer with VERNAM 7-E or VERNAM 7-E/TREFLAN 4-EC provides a satisfactory, dry

mixture if the absorptive capacity is inadequate. Use of a highly absorptive powder is required to provide a dry, flowable mixture. Microcel E (Johns-Manville Products Corp.) is the recommended absorbent powder. It should be added separately and uniformly to the prepared VERNAM 7-E or VERNAM 7-E/TREFLAN 4-EC fertilizer mixture, in a quantity that is sufficient to provide a suitably flowable mixture. Generally less than 2% by weight of Microcel E is required. The amount of product actually required in the manufacture of individual fertilizer mixture should be determined carefully for each production operation. This is necessary to ensure that the amount of VERNAM 7-E/TREFLAN 4-EC actually contained in the mixture applied to the soil represents the correct rate of use.

All VERNAM 7-E and TREFLAN 4-EC label recommendations regarding rates per acre, soil incorporation, application, cautions, general use precautions and other directions must be followed.

All individual state regulations relating to bulk dry fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the fertilizer and VERNAM 7-E and/or VERNAM/TREFLAN 4-EC.

Maximum of 200 pounds and a maximum of 450 pounds of approved ingredients* impregnated with VERNAM 7-E/TREFLAN 4-EC at the recommended rate must be applied per acre.

Bulk fertilizer impregnated with VERNAM 7-E should be applied immediately *not stored*. It is recommended that all bulk containers be tightly covered while the product is being transported and applied to reduce chances of VERNAM 7-E loss via volatilization.

***APPROVED DRY FERTILIZER INGREDIENTS**

	N	P	K
Ammonium Sulfate	21	0	0
Diammonium Phosphate	18	46	0
Potassium Chloride	0	0	60
(Single) Superphosphate	0	20	0
Triple Superphosphate	0	46	0
Urea	45	0	0
Ammonium Sulfate-Sulfate	16	20	0
Ammonium Sulfate	0	0	52

NOTE: Sul-PO-MAG, K-MAG and 11-48-0 have been shown to be compatible with VERNAM 7-E plus TREFLAN 4-EC and are approved for use.

VERNAM 7-E Typical Physical Data

Pounds/Gallon, 20/20°C	7.88 (Approximate) (varies with temperature)
Flashpoint	125°F (tagliabue closed cup)
Viscosity	Sprayable down to minus 20°F

RATE CHART FOR THE IMPREGNATION OF DRY BULK FERTILIZERS WITH VERNAM 7-E and VERNAM/TREFLAN 4-EC ADDED TO A TON OF FERTILIZER*

Fertilizer Rate Per Acre	VERNAM 7-E Rate/Acre				TREFLAN 4-EC Rate/Acre	
	1 1/4 pts	2 1/2 pts	3 pts	3 3/4 pts	1 pt	2 pts
200 lbs	8 3/4 qts/ton	11 1/4 qts/ton	15 qts/ton	17 1/2 qts/ton	5 qts/ton	10 qts/ton
250 lbs	7 qts/ton	9 1/4 qts/ton	12 qts/ton	14 qts/ton	4 qts/ton	8 qts/ton
300 lbs	5-4/5 qts/ton	7 1/4 qts/ton	10 qts/ton	11 1/4 qts/ton	3 1/2 qts/ton	7 qts/ton
350 lbs	5 qts/ton	6 3/4 qts/ton	8-3/5 qts/ton	10 qts/ton	2-4/5 qts/ton	6 qts/ton
400 lbs	4 1/2 qts/ton	5-4/5 qts/ton	7 1/4 qts/ton	8 3/4 qts/ton	2 1/2 qts/ton	5 qts/ton
450 lbs	3-4/5 qts/ton	5-1/5 qts/ton	6 3/4 qts/ton	7-4/5 qts/ton	2 1/2 qts/ton	4 1/2 qts/ton

* Refer to application rates under APPLICATION DIRECTIONS.

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STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, feed or fertilizer by storage or disposal.

STORAGE: Store in a cool, dry place. Do not store in areas where food or feed is stored.

PESTICIDE DISPOSAL: Rinse spray equipment, pesticide, spray mixture, or rinseate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL: Triple rinse (or equivalent), and offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other approved State and local procedures.

